

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/559,438  
Source: TFWP  
Date Processed by STIC: 12/16/2005

***ENTERED***



IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/559,438

DATE: 12/16/2005  
TIME: 15:35:24

Input Set : A:\ALEX-P01-107.seq.txt  
Output Set: N:\CRF4\12162005\J559438.raw

3 <110> APPLICANT: McWhirter, John  
5 <120> TITLE OF INVENTION: CELL SURFACE PROTEIN ASSOCIATED WITH HUMAN CHRONIC LYMPHOCYTIC  
6 LEUKEMIA  
8 <130> FILE REFERENCE: 107 PCT (1087-86 PCT)  
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/559,438  
C--> 11 <141> CURRENT FILING DATE: 2005-12-02  
13 <150> PRIOR APPLICATION NUMBER: US 60/530,094  
14 <151> PRIOR FILING DATE: 2003-12-15  
16 <150> PRIOR APPLICATION NUMBER: US 60/475,156  
17 <151> PRIOR FILING DATE: 2003-06-02  
19 <160> NUMBER OF SEQ ID NOS: 86  
21 <170> SOFTWARE: PatentIn version 3.2  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 183  
25 <212> TYPE: PRT  
26 <213> ORGANISM: human  
28 <400> SEQUENCE: 1  
30 Met Gln Ala Pro Arg Ala Ala Leu Val Phe Ala Leu Val Ile Ala Leu  
31 1 5 10 15  
34 Val Pro Val Gly Arg Gly Asn Tyr Glu Glu Leu Glu Asn Ser Gly Asp  
35 20 25 30  
38 Thr Thr Val Glu Ser Glu Arg Pro Asn Lys Val Thr Ile Pro Ser Thr  
39 35 40 45  
42 Phe Ala Ala Val Thr Ile Lys Glu Thr Leu Asn Ala Asn Ile Asn Ser  
43 50 55 60  
46 Thr Asn Phe Ala Pro Asp Glu Asn Gln Leu Glu Phe Ile Leu Met Val  
47 65 70 75 80  
50 Leu Ile Pro Leu Ile Leu Leu Val Leu Leu Leu Ser Val Val Phe  
51 85 90 95  
54 Leu Ala Thr Tyr Tyr Lys Arg Lys Arg Thr Lys Gln Glu Pro Ser Ser  
55 100 105 110  
58 Gln Gly Ser Gln Ser Ala Leu Gln Thr Tyr Glu Leu Gly Ser Glu Asn  
59 115 120 125  
62 Val Lys Val Pro Ile Phe Glu Glu Asp Thr Pro Ser Val Met Glu Ile  
63 130 135 140  
66 Glu Met Glu Glu Leu Asp Lys Trp Met Asn Ser Met Asn Arg Asn Ala  
67 145 150 155 160  
70 Asp Phe Glu Cys Leu Pro Thr Leu Lys Glu Glu Lys Glu Ser Asn His  
71 165 170 175  
74 Asn Pro Ser Asp Ser Glu Ser  
75 180  
78 <210> SEQ ID NO: 2  
79 <211> LENGTH: 675

(P9-6)

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Input Set : A:\ALEX-P01-107.seq.txt

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80 <212> TYPE: DNA  
 81 <213> ORGANISM: human  
 83 <400> SEQUENCE: 2

84	aagcttagcc	cggcgccagca	tcctgagcgc	gcctctgccg	aggcgagcgg	acatgcaggc	60									
86	tccccgcgca	gccctagtct	tcgcccgggt	gatcgcgctc	gttcccgtcg	gccggggtaa	120									
88	ttatgaggaa	ttagaaaaact	caggagatac	aactgtggaa	tctgaaagac	caaataaagt	180									
90	gactattcca	agcacatttgc	ctgcagtgac	catcaaagaa	acattaaatg	caaataataaa	240									
92	ttctaccaac	tttgctccgg	atgaaaaatca	gttagagttt	atactgtatgg	tgttaatccc	300									
94	attgatttta	ttggtcctct	tacttttattc	cgtggatttc	cttgcacat	actataaaaag	360									
96	aaaaagaact	aacaagaacc	ttctagccaa	ggatctcaga	gtgctttaca	gacatatgaa	420									
98	ctgggaagtg	aaaacgtgaa	agtccttatt	tttgaggaag	atacaccctc	tgttatggaa	480									
100	attgaaatgg	aagagcttga	taaatggatg	aacagcatga	atagaaatgc	cgactttgaa	540									
102	tgttaccta	ccttgaagga	agagaaggaa	tcaaatcaca	acccaagtga	cagtgaatcc	600									
104	taaacctgaa	tggcgctcat	gttttccaag	agaagcagcc	cctgaggggag	tctgctgagg	660									
106	ctgccaacag	gatcc					675									
109	<210>	SEQ ID NO: 3														
110	<211>	LENGTH: 181														
111	<212>	TYPE: PRT														
112	<213>	ORGANISM: murine														
114	<400>	SEQUENCE: 3														
116	Met	Thr	Val	Pro	Cys	Ala	Ala	Leu	Val	Leu	Ala	Gly	Leu	Ala	Phe	
117	1					5				10				15		
120	Gly	Gln	Ser	Ser	Gln	Gly	Asn	Asp	Glu	Glu	Ser	Glu	Tyr	Ser	Gly	Gln
121						20				25				30		
124	Ser	Ile	Thr	Glu	Glu	Asn	Ser	Glu	Asp	Glu	Thr	Thr	Arg	Ser	Ala	
125						35				40				45		
128	Leu	Ala	Thr	Val	Thr	Thr	Glu	Ala	Leu	Ala	Glu	Asn	Val	Asn	Ser	Thr
129						50				55				60		
132	His	Thr	Asn	Asp	Thr	Ser	Asn	Gln	Val	Glu	Phe	Ile	Leu	Met	Val	Ala
133						65				70				75		80
136	Ile	Pro	Leu	Ala	Ala	Leu	Leu	Ile	Leu	Leu	Phe	Met	Val	Leu	Ile	Ala
137						85				90				95		
140	Thr	Tyr	Phe	Lys	Ser	Lys	Arg	Pro	Lys	Gln	Glu	Pro	Ser	Ser	Gln	Gly
141						100				105				110		
144	Ser	Gln	Ser	Ala	Leu	Gln	Thr	His	Glu	Leu	Gly	Gly	Glu	Thr	Leu	Lys
145						115				120				125		
148	Val	Pro	Ile	Phe	Glu	Glu	Asp	Thr	Pro	Ser	Val	Met	Glu	Ile	Glu	Met
149						130				135				140		
152	Glu	Glu	Leu	Asp	Lys	Trp	Met	Asn	Ser	Met	Asn	Arg	Asn	Ala	Asp	Tyr
153						145				150				155		160
156	Glu	Cys	Leu	Pro	Thr	Leu	Lys	Glu	Glu	Lys	Glu	Pro	Asn	Pro	Ser	Pro
157						165				170				175		
160	Ser	Asp	Asn	Glu	Ser											
161						180										
164	<210>	SEQ ID NO: 4														
165	<211>	LENGTH: 367														
166	<212>	TYPE: PRT														
167	<213>	ORGANISM: rat														
169	<400>	SEQUENCE: 4														

RAW SEQUENCE LISTING  
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Input Set : A:\ALEX-P01-107.seq.txt  
Output Set: N:\CRF4\12162005\J559438.raw

171 Met Thr Arg Pro Pro Tyr Gln Glu Ala Pro Val Gly Asp Leu Gln Met  
172 1 5 10 15  
175 Gly Asp Arg Gln Glu Ser Ser Gly Asp Lys Asp Arg Asn Asp Glu Asp  
176 20 25 30  
179 Ser Glu Tyr Ser Gly His Ser Thr Thr Glu Glu Asp Thr Ala Glu Glu  
180 35 40 45  
183 Glu Thr Thr Arg Ala Leu Ala Thr Val Thr Thr Glu Ala Leu Ala Glu  
184 50 55 60  
187 Ser Ala Asn Ser Thr His Ile His Gly Thr Ser Asn Gln Val Glu Phe  
188 65 70 75 80  
191 Ile Leu Met Val Ala Val Pro Leu Ala Ala Leu Leu Ile Leu Leu Phe  
192 85 90 95  
195 Ala Ile Leu Ile Val Ile Tyr Phe Lys Ser Arg Arg Pro Lys Gln Glu  
196 100 105 110  
199 Pro Ser Ser Gln Gly Ser Gln Ser Ala Leu Gln Thr Leu Arg Leu Leu  
200 115 120 125  
203 Leu Ser Leu Glu Thr Lys Arg Pro Glu Pro Ser Val Ala Pro Ser Leu  
204 130 135 140  
207 Gly Pro Arg Pro Thr Ile Pro Leu Pro Thr Ala Gln Arg Gly Pro Cys  
208 145 150 155 160  
211 Gln Gln Ser Gly Cys Lys Ala Gly Thr Lys Gly Gly Arg Gln Asp Arg  
212 165 170 175  
215 Gly Glu Asn Glu Met Ala Gly Arg Lys Gly Thr Lys Trp Lys Pro Val  
216 180 185 190  
219 Gly Asn Gly Pro Gly Ala Glu Lys Met Arg Pro Gln Lys Ala Phe Cys  
220 195 200 205  
223 Ser Phe Asn Ala Asp Tyr Gly Ala Ser His Ser Val His Leu Glu His  
224 210 215 220  
227 Phe Gly Asn Gly Phe Leu Asn Phe Ser Ile Ile Cys Met Gln Val Gly  
228 225 230 235 240  
231 Phe Cys Pro Pro Pro Ser Leu Trp Gly Ala Gln Met Arg Val Glu Ile  
232 245 250 255  
235 Arg Ala His Ser Gly Thr Val Glu Pro Leu Ala Val Trp Glu Ile Gly  
236 260 265 270  
239 Gly Glu Val Ala Lys Gln Gly Lys Gly Thr Asp Asp Leu Gly Gly Glu  
240 275 280 285  
243 Thr Leu Lys Val Pro Ile Phe Glu Glu Asp Thr Pro Ser Val Met Glu  
244 290 295 300  
247 Ile Glu Met Glu Glu Leu Asp Lys Trp Met Asn Ser Met Asn Arg Asn  
248 305 310 315 320  
251 Gly Thr Trp Lys Thr Lys Ala Phe Ala Cys Leu Cys Gly Asn Ala Gly  
252 325 330 335  
255 Leu Asp Gly Cys Leu Cys Phe Ile Ser Asn Ser Glu Asn Leu Lys Leu  
256 340 345 350  
259 Cys Phe Ile Trp His Ser Thr Cys Ala Leu Leu Lys Asp Pro Val  
260 355 360 365  
263 <210> SEQ ID NO: 5  
264 <211> LENGTH: 703  
265 <212> TYPE: DNA

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Input Set : A:\ALEX-P01-107.seq.txt  
 Output Set: N:\CRF4\12162005\J559438.raw

266 <213> ORGANISM: artificial sequence  
 268 <220> FEATURE:  
 269 <223> OTHER INFORMATION: FLJ32028 with an HA epitope tag  
 271 <400> SEQUENCE: 5

272	aagcttagcc	cggcgccagca	tcctgagcgc	gcctctgccc	aggcgagcgg	acatgcaggc	60										
274	tccccgcgca	gccctagtct	tcgcccctgtt	gatcgcgctc	gttcccgtcg	gccggggtaa	120										
276	ttagccatat	gatgttccag	attatgctta	tgaggaatta	gaaaactcag	gagatacaac	180										
278	tgtggaatct	gaaagaccaa	ataaagtgac	tatccaagc	acatttgctg	cagtgaccat	240										
280	caaagaaaaca	ttaaatgcaa	atataaaattc	taccaacttt	gctccggatg	aaaatcagt	300										
282	agagttata	ctgatggtgt	taatcccatt	gattttattt	gtcctcttac	tttatccgt	360										
284	ggtattcctt	gcaacatact	ataaaagaaa	aagaactaaa	caagaacctt	ctagccaagg	420										
286	atctcagagt	gctttacaga	catacgtact	gggaagtgaa	aacgtgaaag	tccctat	480										
288	tgaggaagat	acaccctctg	ttatggaaat	tgaaatggaa	gagcttgata	aatggatgaa	540										
290	cagcatgaat	agaaatgccc	actttgaatg	tttacctacc	ttgaaggaag	agaaggaatc	600										
292	aaatcacaac	ccaagtgaca	gtgaatccta	aacctgaatg	gcgctcatgt	tttccaagag	660										
294	aagcagcccc	tgagggagtc	tgctgaggct	gccaacagga	tcc		703										
297	<210>	SEQ ID NO:	6														
298	<211>	LENGTH:	192														
299	<212>	TYPE:	PRT														
300	<213>	ORGANISM:	artificial sequence														
302	<220>	FEATURE:															
303	<223>	OTHER INFORMATION:	FLJ32028 with HA epitope tag														
305	<400>	SEQUENCE:	6														
307	Met	Gln	Ala	Pro	Arg	Ala	Ala	Leu	Val	Phe	Ala	Leu	Val	Ile	Ala	Leu	
308	1			5			10						15				
311	Val	Pro	Val	Gly	Arg	Gly	Asn	Tyr	Pro	Tyr	Asp	Val	Pro	Asp	Tyr	Ala	
312				20			25						30				
315	Tyr	Glu	Glu	Leu	Glu	Asn	Ser	Gly	Asp	Thr	Thr	Val	Glu	Ser	Glu	Arg	
316				35			40						45				
319	Pro	Asn	Lys	Val	Thr	Ile	Pro	Ser	Thr	Phe	Ala	Ala	Val	Thr	Ile	Lys	
320				50			55						60				
323	Glu	Thr	Leu	Asn	Ala	Asn	Ile	Asn	Ser	Thr	Asn	Phe	Ala	Pro	Asp	Glu	
324				65			70						75			80	
327	Asn	Gln	Leu	Glu	Phe	Ile	Leu	Met	Val	Leu	Ile	Pro	Leu	Ile	Leu		
328							85						90			95	
331	Val	Leu	Leu	Leu	Ser	Val	Val	Phe	Leu	Ala	Thr	Tyr	Tyr	Lys	Arg		
332							100						105			110	
335	Lys	Arg	Thr	Lys	Gln	Glu	Pro	Ser	Ser	Gln	Gly	Ser	Gln	Ser	Ala	Leu	
336							115						120			125	
339	Gln	Thr	Tyr	Glu	Leu	Gly	Ser	Glu	Asn	Val	Lys	Val	Pro	Ile	Phe	Glu	
340							130						135			140	
343	Glu	Asp	Thr	Pro	Ser	Val	Met	Glu	Ile	Glu	Met	Glu	Glu	Leu	Asp	Lys	
344							145						150			155	
347	Trp	Met	Asn	Ser	Met	Asn	Arg	Asn	Ala	Asp	Phe	Glu	Cys	Leu	Pro	Thr	
348													165			170	
351	Leu	Lys	Glu	Glu	Lys	Glu	Ser	Asn	His	Asn	Pro	Ser	Asp	Ser	Glu	Ser	
352													180			185	
355	<210>	SEQ ID NO:	7														
356	<211>	LENGTH:	637														

RAW SEQUENCE LISTING  
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357 <212> TYPE: DNA  
358 <213> ORGANISM: artificial sequence  
360 <220> FEATURE:  
361 <223> OTHER INFORMATION: FLJ32028 with HA epitope tag  
363 <400> SEQUENCE: 7  
364 aagcttagcc cggcgcagca tcctgagcgc gcctctgccg aggcgagcgg acatgcaggc 60  
366 tccccgcga gcccctgtct tcgcctgtt gatcgcgctc gttcccgctg gccgggtaa 120  
368 ttatgaggaa ttagaaaact caggagatac aactgtggaa tctgaaagac caaataaagt 180  
370 gactattcca agcacatttgc ctgcagtgcac catcaaagaa acattaaatg caaatataaa 240  
372 ttctaccaac ttgcgtccgg atgaaaatca gtttagagttt atactgtatgg tgttaatccc 300  
374 attgatttta ttggctctt tacttttatac cgtgttattc cttgcaacat actataaaag 360  
376 aaaaagaact aaacaagaac cttcttagcca aggatcttag agtgctttac agacatatga 420  
378 actgggaagt gaaaacgtga aagtccctat ttttggggaa gatacacccct ctgttatgga 480  
380 aattgaaatg gaagagcttgc ataaatggat gaacagcatg aatagaaaatg ccgactttga 540  
382 atgtttaccc accttgaagg aagagaagga atcaaatac aacccaagtg acagtgaatc 600  
384 cttatccat gatgtccag attatgctta aggatcc 637  
387 <210> SEQ ID NO: 8  
388 <211> LENGTH: 192  
389 <212> TYPE: PRT  
390 <213> ORGANISM: artificial sequence  
392 <220> FEATURE:  
393 <223> OTHER INFORMATION: FLJ32028 with HA epitope tag  
395 <400> SEQUENCE: 8  
397 Met Gln Ala Pro Arg Ala Ala Leu Val Phe Ala Leu Val Ile Ala Leu  
398 1 5 10 15  
401 Val Pro Val Gly Arg Gly Asn Tyr Glu Glu Leu Glu Asn Ser Gly Asp  
402 20 25 30  
405 Thr Thr Val Glu Ser Glu Arg Pro Asn Lys Val Thr Ile Pro Ser Thr  
406 35 40 45  
409 Phe Ala Ala Val Thr Ile Lys Glu Thr Leu Asn Ala Asn Ile Asn Ser  
410 50 55 60  
413 Thr Asn Phe Ala Pro Asp Glu Asn Gln Leu Glu Phe Ile Leu Met Val  
414 65 70 75 80  
417 Leu Ile Pro Leu Ile Leu Leu Val Leu Leu Leu Ser Val Val Phe  
418 85 90 95  
421 Leu Ala Thr Tyr Tyr Lys Arg Lys Arg Thr Lys Gln Glu Pro Ser Ser  
422 100 105 110  
425 Gln Gly Ser Gln Ser Ala Leu Gln Thr Tyr Glu Leu Gly Ser Glu Asn  
426 115 120 125  
429 Val Lys Val Pro Ile Phe Glu Glu Asp Thr Pro Ser Val Met Glu Ile  
430 130 135 140  
433 Glu Met Glu Glu Leu Asp Lys Trp Met Asn Ser Met Asn Arg Asn Ala  
434 145 150 155 160  
437 Asp Phe Glu Cys Leu Pro Thr Leu Lys Glu Glu Lys Glu Ser Asn His  
438 165 170 175  
441 Asn Pro Ser Asp Ser Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala  
442 180 185 190  
445 <210> SEQ ID NO: 9  
446 <211> LENGTH: 1421

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/16/2005  
PATENT APPLICATION: US/10/559,438 TIME: 15:35:25

Input Set : A:\ALEX-P01-107.seq.txt  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 40  
Seq#:10; Xaa Pos. 14,220  
Seq#:85; Xaa Pos. 3,5,10,13,14,16,17,19,21,32,39,40,42,61,66,67,68,92,120  
Seq#:85; Xaa Pos. 172,174,175

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/559,438

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Input Set : A:\ALEX-P01-107.seq.txt

Output Set: N:\CRF4\12162005\J559438.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:208  
L:2444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0  
L:2448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:16  
L:2452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:32  
L:2456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:48  
L:2460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:64  
L:2464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:80  
L:2472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:112  
L:2484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:160